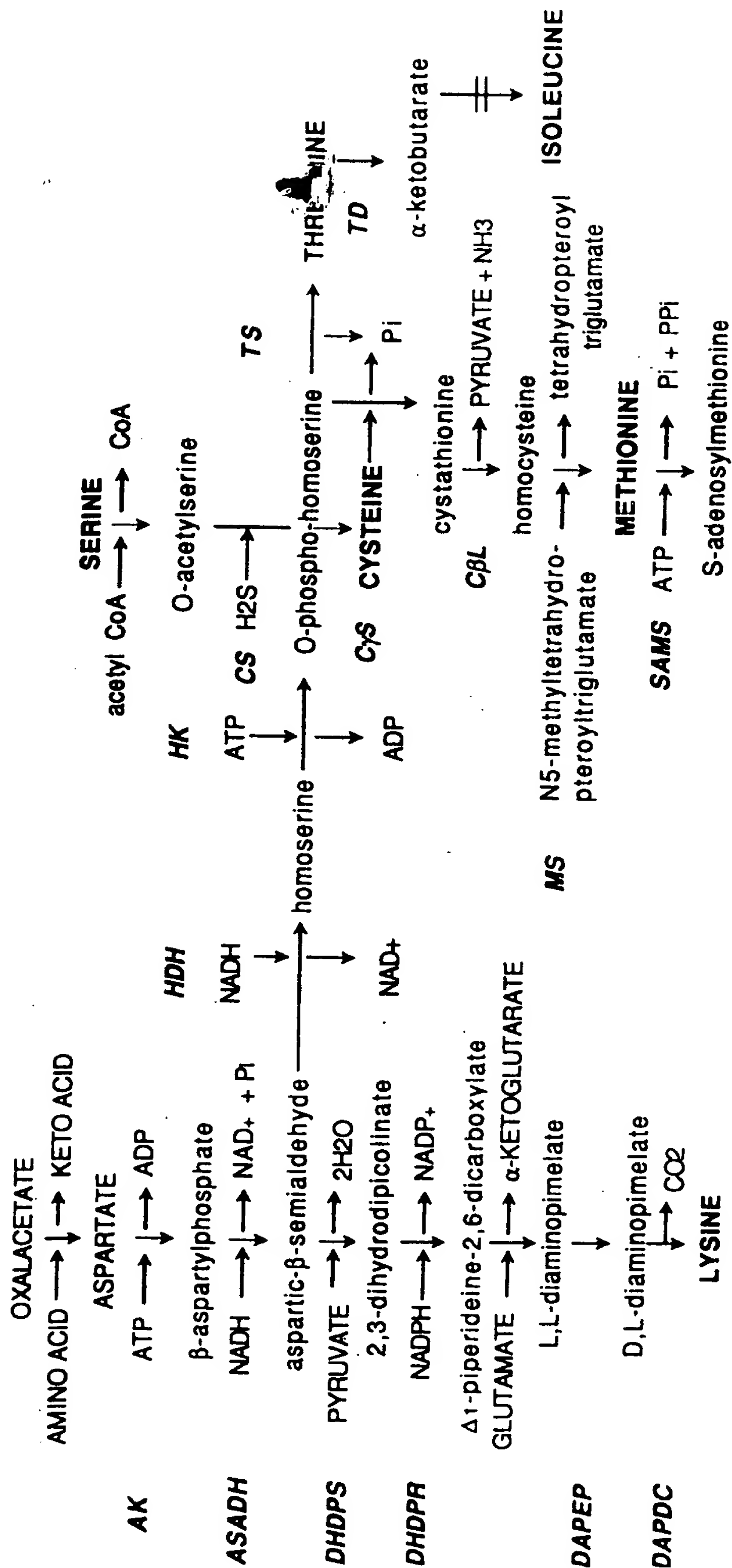


FIG. 1



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Figure 2B

SEQ ID NO: 7	APKAVAAGCVVDNTSCFRYEDDIPLVPGSESSNRDYT---	KRGIIANPNCSTIQMV	++	*****	++
SEQ ID NO: 52	APKFAKDGVVVIDNSSAWRMDPDVPLVVPENPEDVKDFK---	KKGIIANPNCSTIQMV			
SEQ ID NO: 43	GPAAVASGAVVDNSSAFRMEPEVPLVPEVNPEAMANVRLG--	QGAIVANPNCSTIIICL			
SEQ ID NO: 2	-----	-----			
SEQ ID NO: 45	APAAVASGAVVDNSSAFRMDPEVPLVPEVNPEAMAHVRLG--	KGAIVANPNCSTIIICL			
SEQ ID NO: 6	-----	-----			
SEQ ID NO: 49	GPIAVNRGTVVVDNSSAFRMDKVPPLVPEVNPEAMQNIKAGTGKALIANPNCSTIRCL				
SEQ ID NO: 47	GPIAVNRGTVVVDNSSAFRMDKVPPLVPEVNPEAMQNIKAGTGKALIANPNCSTIIICL				
SEQ ID NO: 4	-----	-----L			
SEQ ID NO: 51	APAAVASGAVVDNSSAYRMDPDVPLVPEVNPEAMADVRLG--	KGAIVANPNCSTIIICL			

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SEQ ID NO: 7	VALKPIYDAVGISRINVAITYQSVSGTGKKAISELVAQVGDLLNGRP-	ANVQVYPQQIAFN	++	++	*****
SEQ ID NO: 52	VALKPIYDKAGIKRVVSTYQAVSGAGAKAIEDLKNQTKAWCEGKEMPKAQKFPHQIAFN				
SEQ ID NO: 43	MAATPLHRHAKVLRMVVSTYQAAAGAGAAAMEELKLQTEVLEGKA-	PTCNI FKQQYAFN			
SEQ ID NO: 2	-----WYRHAKVVRMVVSTYQAAAGAGAAAMEELKLQTEVLEAGKA-	PTCNI FSQQYAFN			
SEQ ID NO: 45	MAATPLHRHAKVVRMVVSTYQAAAGAGAAAMEELKLQTEVLEAGKA-	PTCNI FSQQYAFN			
SEQ ID NO: 6	MAVTPLHRHAKVVRMVVSTYQAAAGAGAAAMEELKLQTEVLEAGKA-	PTCNI FSQQYAFN			
SEQ ID NO: 49	KAATPLHRRRAKVLRMVVSTYQAAAGAGAAAMEELKLQTEVLEAGKA-	PTCKI FNRQYAFN			
SEQ ID NO: 47	MAATPLHRRRAKVLRMVVSTYQAAAGAGAAAMEELKLQTEVLEAGKA-	PTCKI FNRQYAFN			
SEQ ID NO: 4	-----	-----			
SEQ ID NO: 51	MAVTPLHRHAKVVRMVVSTYQAAAGAGAAAMEELKLQTEVLEAGKA-	PTCNI FSQQYAFN			

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Figure 3A

SEQ ID NO: 20	MD	-----TFSYRDAE-----
SEQ ID NO: 57		MGQTNSETQQARLYTONSQKQLLRSFLLHLIFGYQSHKTLRMAAATQFLSQPSSLNPHQ
SEQ ID NO: 9		-----
SEQ ID NO: 11	M	-----AAANLLSRSL-----PTPNTIRTSHPTPRSPAV-----
SEQ ID NO: 13	L	-----H-----
SEQ ID NO: 15		-----
SEQ ID NO: 19		-----
SEQ ID NO: 54	C	-----NTHCLVGKIFH-----QQHTAMAGSNILSHSPSLPKTYSHS
SEQ ID NO: 17		-----
SEQ ID NO: 56		-----

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SEQ ID NO: 20	+	+++	**	++
SEQ ID NO: 57		-----LKNQTSQRSRIPVLSLSTLKLKRLSV-----KAAVVSQNSSKTVTKFDHCFKKSSDGFLY		
SEQ ID NO: 9		-----		
SEQ ID NO: 11		-----VSFPRRRARLSVCASVSMASPPPPQAAAGVPKHCFRRGADGYLY		
SEQ ID NO: 13		-----		
SEQ ID NO: 15		-----		
SEQ ID NO: 19		-----		
SEQ ID NO: 54		-----LNQNALSQKLFFLPLKFKATTKPRALRAVLSQLNAVKTSVEDTKNAHFQHCFTKSEDGYLY		
SEQ ID NO: 17		-----		
SEQ ID NO: 56		-----		

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Figure 3C

SEQ ID NO: 20	+++ + ** + **++ + ****+ + **++ + **++ + **++ + **++ +	RLQRVAELGVKAPVSLRVNPDVDAQTHPYISTGLKENKFGIAIDEAEAVYARAAEL-DH
SEQ ID NO: 57		NIVEASRISGKQVNVLLRINPDVDPQVHPYVATGNKNSKFGIRNEKLQWFLDQVKAHPKE
SEQ ID NO: 9		NIVRAARATGKKVPVLLRINPDVDPQVHPYVATGNKTSKFGIRNEKLQWFLDSIKSYPNE
SEQ ID NO: 11		NIVRAARATGKKVPVLLRINPDVDPQVHPYVATGNKTSKFGIRNEKLQWFLNSIKSYSNE
SEQ ID NO: 13		NIVTAARVAGKKVPVLLRINPDVDPQVHPYVATGNKTSKFGIRNEKLQWFLDSIKSYSND
SEQ ID NO: 15		-----VATGNKNSKFGIRNEKLQCFLDVKEHPNE
SEQ ID NO: 19		-----
SEQ ID NO: 54		NIVEAAKRAGKKVNVLLRINPDVDPQVHPYVATGNKNSKFGIRNEKLQCFLDVKEHPNE
SEQ ID NO: 17		-----
SEQ ID NO: 56		-----

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SEQ ID NO: 20	+++ + **++ + **++ + **++ + **++ + **++ + **++ + **++ +	LEVIGVDCHIGSQLTQLEPFLDALERLLGLVDRLAGKGIGIRHLDLGGGLGVRYRDEQPP
SEQ ID NO: 57		LKLVGACHLGSTITKVDIFRDAAVLMIEYIDEIRRQGFVSYLNIGGGLGIDYYHAGAV
SEQ ID NO: 9		IKLVGVHCHLGSTITKVDIFRDAAVLMLNYVDEIRAQGFKLEYLNIGGGLGIDYHHTDAV
SEQ ID NO: 11		IKLVGVHCHLGSTITKVDIFRDAAVLMVNYVDEIRAQGFKLEYLNIGGGLGIDYHHTDAV
SEQ ID NO: 13		ITLVGVHCHLGSTITKVDIFRDAAGLMVNYVDEIRAQGFLEYLEYLNIGGGLGIXYHHTDAV
SEQ ID NO: 15		LKLVGACHLGSTITKVDIFRDAATIMINYIDQIRDQGFVVDYLNIGGGLGIDYYHSGAI
SEQ ID NO: 19		-----
SEQ ID NO: 54		LKLVGACHLGSTITKVDIFRDAATIMINYIDQIRDQGFVVDYLNIGGGLGIDYYHSGAI
SEQ ID NO: 17		-----
SEQ ID NO: 56		-----FELEYLNIGGGLGIDYHHTGAV

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Figure 4A

SEQ ID NO: 60 MA-SLCFQSPSKPISYFQPKSNPSPPLFAKVSFRCRASVQTLVAVEPEPVFVSVKTFAP *
SEQ ID NO: 29 M-----REIMKVRVKA--P
SEQ ID NO: 22 -----
SEQ ID NO: 24 -----
SEQ ID NO: 59 -----
SEQ ID NO: 26 MATSTCFLCPSTA-----SLKGRARF-RIRI-RCSSSVSVNIRREPEPVTTLVKAFAP
SEQ ID NO: 28 -----
1 60

SEQ ID NO: 60 +*****+*****+
SEQ ID NO: 29 ATVANLGPGFDFLG-CAVDGLGDHVTLLRVDPSVRAGEVSISEITG-TTTLSTNPLRNCA
SEQ ID NO: 22 CTSANLGVGFDFVFLC---LKEPYDVIEVEAIDDKKEIII-EVDD--KNIPTDPDKNVA
SEQ ID NO: 24 -----
SEQ ID NO: 59 -----H
SEQ ID NO: 26 ATVANLGPGFDFLG-CAVDGLGDI VSVKVDPQVHPGEICISDISGHAPNKL SKNPLWNCA
SEQ ID NO: 28 -----
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SEQ ID NO: 60 +*+
SEQ ID NO: 29 GIAAIAATMKMLGIRSVGLSLDLHKGLPLGSLGSSAASAAAAA VAVNEIFGRKLGSDQLV
SEQ ID NO: 22 GIVAKKMIDDFNI -GKGVKITIKKGVKAGSGLGSSAASSAGTAYAINELF--KLNLDKLLK
SEQ ID NO: 24 -----VSIHLTKGLPLGSLGSSAASAAAAA KAVDALFGSL LHQDDLV
SEQ ID NO: 59 EVAAIAALRALDVKSHAVSIHLTKGLPLGSLGSSAASAAAAA KAVDALFGSL LHQDDLV
SEQ ID NO: 26 GIAAIEVMKMLSIRSVGLSLLEKGLPLGSLGSSAASAAAAA VAVNELFGKKLSVEELV
SEQ ID NO: 28 -----
121 180

SEQ	ID	NO: 60	LAGLES--EAKVS-GYHADNIAPAIMGGFVLIRNYEPLDLKPLKFPSDKDLFFVLVSPEF	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+
SEQ	ID	NO: 29	LVDYASYGELASSGAKHADNVAPAI FGGFTMTVTNYEPLV--LHIPIDFKLDILIAIPNI	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+
SEQ	ID	NO: 22	-----DNIAPAILGGFVLVRSYDPFHLVPLSFPPALRLHFVLVTPDF	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+
SEQ	ID	NO: 24	LAGLES--EKA VSGXXHADNIAPAILGGFVLVRSYDP-----FHLI----	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+
SEQ	ID	NO: 59	LAGLES--EKA VSG-FHADNIAPAILGGFVLVRSYDPFHLIPLSSPPALRLHFVLVTPDF	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+
SEQ	ID	NO: 26	LASLKS--EEKVSG-YHADNVAPSIMGGFVLIGSYSPLELMPLKFPPAEKELYFVLVTPDF	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+
SEQ	ID	NO: 28	---LES--EKA VSG-FHADNIAPAILGGFVLVRSYDPFHLVPLSFPPALRLHFVLVTPDF	**+	+	*	+	*	+	+	+	*	+	+	*	+	+	*	+

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SEQ	ID NO: 60	EAPTKKMRAALPTEIPMVHHVWNSSQAAALVAAVLEGDAVMLGKALSSDKIVEPTRAPLI ++++* ++**++** +* * +* * +* * +* * +* * +* * +* *
SEQ	ID NO: 29	SINTKEAREILPKAVGLKDLVNNVGKACGMVYALYNKDKSIFGRYMMSDKVIEPVRGKLI
SEQ	ID NO: 22	EAPTSKMRAALPRQVDVQQHVRNSSQAAALVAAVLQGDAVLIGSAMSSDGIVEPTRAPLI -----
SEQ	ID NO: 24	-----
SEQ	ID NO: 59	EAPTSKMRAALPKQVAHQHVRNSSQAAALVAAVLQGDATLIGSAMSSDGIVEPTRAPLI
SEQ	ID NO: 26	EAPTKKMRAALPTEIGMPHHVWNC SQAGALVASVLQGDVVGLGKALSSDKIVEPRRAPLI
SEQ	ID NO: 28	EAPTSKMRAALPRQVDVQQHVRNSSQAAAL----- -----

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SEQ	ID	NO: 60	*++	++*	++	++	+++	***	++	+	+	++	+	++	+	+	+	+								
			PGME	AVKKA	AL	EAG	AFG	CTIS	GAG	PTA	VA	ID	SE	EK	GQ	VI	GE	KM	VE	AF	WK	VG	HL	KS	VA	SV
SEQ	ID	NO: 29	PNY	FKI	KEE	-	VKD	KVY	GITI	SG	GPS	IIA	-	-	-	-	-	-	-	-	-	-	-	-	-	
SEQ	ID	NO: 22	PGMA	AVKAA	AL	QAG	AL	GCTIS	GAG	PTV	VA	VI	QGE	EE	VA	RK	MV	DA	FW	SAG	KL	KA	TAT	AT	TV	
SEQ	ID	NO: 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SEQ	ID	NO: 59	PGMA	AVKAA	AL	EAG	AL	GCTIS	GAG	PTA	VA	ID	GE	EK	GE	EV	GR	RM	VE	AF	AN	AG	NL	KA	TAT	
SEQ	ID	NO: 26	PGME	AVKRA	AI	QAG	AF	GCTIS	GAG	PTA	VA	ID	DE	Q	TG	HL	IA	KH	MI	DA	FL	HV	GN	LK	AS	
SEQ	ID	NO: 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Figure 4C

SEQ ID NO:60	++	+++	KKLDKVGAR	-----	-----	-----	-----
SEQ ID NO:29	-----	-----	-----	FPKEEFIDEVENILR	-----	DYVE	-----
SEQ ID NO:22	-----	-----	AQLDTLGARVIATS	-----	SLN	-----	-----
SEQ ID NO:24	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:59	-----	-----	AQLDRVGARVISTS	-----	TLE	-----	-----
SEQ ID NO:26	-----	-----	KQLDRLGARRIPNTFSSLSLEACRFQEPDFFQLARNLTLSADRS HVFEISDQSSILVWRSE	-----	-----	-----	-----
SEQ ID NO:28	-----	-----	-----	-----	-----	-----	-----

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SEQ ID NO:60	-----	-----	-----	-----	-----	LVNSVSR	-----
SEQ ID NO:29	-----	-----	NTIRTEVGKGV	-----	EVV	-----	-----
SEQ ID NO:22	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:24	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:59	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:26	-----	-----	QEKHTQAGSSVWVVEI IDELKTIRSVLWTLKHVLD FLCVFIFLSCYLSQSSKRSHFYF	-----	-----	-----	-----
SEQ ID NO:28	-----	-----	-----	-----	-----	-----	-----

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SEQ ID NO:60	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:29	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:22	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:24	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:59	-----	-----	-----	-----	-----	-----	-----
SEQ ID NO:26	-----	-----	LVSLCLILAFEHVLFL	-----	-----	-----	-----
SEQ ID NO:28	-----	-----	-----	-----	-----	-----	-----

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Figure 5A

SEQ ID NO: 66 M--ASFNNPLTSLCNTKSERNNLFKISL-----YEAQSLGFSKLNLSRKVAFPS
SEQ ID NO: 32 M--AD-----AKST-----
SEQ ID NO: 65 M--ASLVNNAYAAIRTSKLE-----LREVKNLANFR
SEQ ID NO: 62 -----MASWSSPSAAANAASGARFGFPSPGGQRLAPCPSLVRGT
SEQ ID NO: 64 ARGSNYGTPLSNTSESEQRKMASWSSPVAA--AALQVHFHGSSCFFSAR-SPRQTLLPPP
SEQ ID NO: 31 M--AV-----ERSG-----

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SEQ ID NO: 66 VVCKAV-----SVPTKSS-----TEIEGLNIAEDVTQLIGNTPM
SEQ ID NO: 32 -----IAKDVTELIGNTP
SEQ ID NO: 65 VGPPSSLS-----CNNFKKVSSSPIT--CKAVSLSPSTIEGLNIAEDVSQFIGKTPM
SEQ ID NO: 62 PAPTLVLRHPDGRGHGLLAHTGPSPSSR-CRAVA--AEVGGLNIANDVTQLIGNTPM
SEQ ID NO: 64 LARNPTLTIQP--RPHPFRNINSSSSSWMCHAVA--AEVEGLNIADDVTQLIGNTPM
SEQ ID NO: 31 -----IAKDVTELIGNTP

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SEQ ID NO: 66 VYLNTIAKGCVANIAAKLEIMEPCCSVKDRIGFSMIVDAEEKGLISPGKTVLVEPTSGNT
SEQ ID NO: 32 VYLNRVVDGCVARVAAKLEMMEPCCSVKDRIGYSMISDAENKGLITPGESVLIPTSGNT
SEQ ID NO: 65 VYLNNVSKGSVANIAAKLESMEPCCSVKDRIGYSMIDDAEQKGVITPGKTTLVEPTSGNT
SEQ ID NO: 62 VYLNNVKGSVANVAAKLEIMEPCCSVKDRIGYSMINDAEQKGLITPGKSVLVEATSGNT
SEQ ID NO: 64 VYLNNI VKGSVANVAAKLEIMEPCCSVKDRIGYSMISDAEEKGLITPGKSVLVEPTSGNT
SEQ ID NO: 31 VYLNKLADGCVARVAAKLELMEPCCSVKDRIGYSMIADAEKGLITPGKSVLIPTSGNT

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SEQ	ID NO: 66	GIGLAFIAASRGYKLILTMPASMSLERRVILKAFGAELVLTDPAKMGKGA VSKAE E I LNN
SEQ	ID NO: 32	GIGLAFIAAAKG YRLIICMPASMSLERRTILRAF GAELVLTDPPARGMKGAVQKAEEIKAK
SEQ	ID NO: 65	GIGLAFIAAARGYKIITLTMPASMSMERRVILKAFGAELVLTDPAKMGKGA VEKAE E I LKK
SEQ	ID NO: 62	GIGLAFIAASKGYKLILT MPSSSMERRVLLRAF GAELVLTDAAKMGKGA LDKATEI LNK
SEQ	ID NO: 64	GIGLAFIAASRGYKLILT MPASMSMERRVLLKAF GAELVLTDAAKMGKGA VD KATEI LNK
SEQ	ID NO: 31	GIGLAFMAAARGYKLII T MPASMSLERRIILLAF GAELVLTDPAKMGKGA VQKAEE ILAK

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SEQ	ID	NO	66	TPDAYILQQFDNPANPKIHYETTGTGPEI	WEDTKGKIDILVAGIGTGGTITGTGRFLKEQNP
SEQ	ID	NO	32	TPNSYILQQFENPANPKIHYETTGTGPEI	WRSGGKIDALVSGIGTGGTGTGAGKYLKEQNP
SEQ	ID	NO	65	TPDSYMLQQFDNPANPKIHYETTGTGPEI	WEDTKGKVDIFVAGIGTGGTISGVGRYLKERNP
SEQ	ID	NO	62	TPNSYMLQQFDNPANPQVHYETTGTGPEI	WEDSKGKVDIFIGGIGTGGTISGAGRFLKEKNP
SEQ	ID	NO	64	TPDAYMLQQFDNPANPKVHYETTGTGPEI	WEDSKGKVDVFIGGIGTGGTISGAGRFLKEKNP
SEQ	ID	NO	31	TPNAYILQQFENPANPKVHYETTGTGPEI	WKGS DGKIDAFVSGIGTGGTITGAGKYLKEQNP

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SEQ	ID NO: 66	NIKIIGVEPTESNVL	SGGKPGPHKI	QIGIGAGFI	PGNLDQ	QDVMDEVI	IEISSDEA	VE	TARTLL	
SEQ	ID NO: 32	NIKLYGVEPVESAIL	SGGKPGPHKI	QIGIGAGFI	PGVLDV	NLLDEVI	QVSSEESI	ETAKLL		
SEQ	ID NO: 65	GVQVIGIEPTESNIL	SGGKPGPHKI	QGLGAGFV	PSNLDL	GVMDDEV	IEVSSEEA	VE	MAKQL	
SEQ	ID NO: 62	GIKVIGIEPSESNIL	SGGKPGPHKI	QIGIGAGFV	PRNLDSD	ILDEVIEI	SSDEA	VE	TAKQL	
SEQ	ID NO: 64	GIKVIGIEPSESNIL	SGGKPGPHKI	QIGIGAGFV	PRNLDSE	VLDEVIEI	SSDEA	VE	TAKQL	
SEQ	ID NO: 31	NIKLIGVEPVES	PNVL	SGGKPGPHKI	QIGIGAGFI	PGVLEVN	LDEVVQI	SSDEA	IE	TAKLL

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Figure 5C

SEQ ID NO: 66	ALQEGLLVGISSGAAALAAIQVGKRPENAGKLI	GVVFP	SYG	ERYL	SSIL	FQ	SIRE	CEKM	
SEQ ID NO: 32	ALKEGLLVGISSGAAAAAIRIAKRPENAGKLI	AVFP	SFG	ERYL	STVL	FES	VKRE	TENM	
SEQ ID NO: 65	AMKEGLLVGISSGAAAAAARIGKRPENAGKLI	AVFP	SFG	ERYL	SSIL	FQ	SIRE	CENM	
SEQ ID NO: 62	AVQEGLLVGISSGAAAAAAIKVAKRPENAGKLI	VVFP	SFG	ERYL	SSVL	YQ	SIRE	CENM	
SEQ ID NO: 64	ALQEGLLVGISSGAAAAAAIKVAKRPENAGKLI	VVFP	SFG	ERYL	SSIL	FQ	SIRE	CEKL	
SEQ ID NO: 31	ALKEGLFVGISSGAAAAAAAFQIAKRPENAGKLI	AVFP	SFG	ERYL	SSVL	FES	VRRE	AESM	420

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SEQ ID NO: 66	KPEL	
SEQ ID NO: 32	VFEP	
SEQ ID NO: 65	KPE -	
SEQ ID NO: 62	QPEP	
SEQ ID NO: 64	QPEP	
SEQ ID NO: 31	TFEP	421 424

Figure 6A

SEQ ID NO: 41	MTSSLHLHSS-----FVPSFADLSDRGLISKNSPTSVISKVPTWEKKQISNR-N
SEQ ID NO: 34	-----
SEQ ID NO: 68	M-----AVAVPNAPGRLLFLLQSTPPFN-PSSASAARAQSF-RVPP-LRLSLFRRMA
SEQ ID NO: 36	-----
SEQ ID NO: 70	MSAAAAAIAIPTSLGRLFHLRPTPN--PSRNLSGSSAQPLRLSYHPRLTLRRME
SEQ ID NO: 38	MFSSAISQKPFLLQSLVIDR-YAQSTTAATRWECGLGNKSENFSTKRVL-----RAE
SEQ ID NO: 40	-----
SEQ ID NO: 72	M-----AAA--AATRLFLHSSPPSSLPSPSSAHTP-RPAY-PRLALAHHRMA

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SEQ ID NO: 41	SFKLNCVMEKSVGQTHSTVNNTT-DSLNTMNIKE-----EASVSTLLVNLNDNKFDPPFD
SEQ ID NO: 34	-----
SEQ ID NO: 68	GRSLTVIAGASGGERDLSASAVSVEALDSVADS-LETKEPSVSTMLTSFENSFDKYG
SEQ ID NO: 36	-----
SEQ ID NO: 70	AP--AAIADSHGG--DLSASAVGAELGAVAAPDFVEMKEPSVATILTSFENSFDGFG
SEQ ID NO: 38	GFKLNCLE-----NREMEVSSSSLVDDAAMSLSEEDLGEPSISTVMNMFESKFDPPFG
SEQ ID NO: 40	-----HESVATILTSFENSFDKYG
SEQ ID NO: 72	AAP-AAIAGPSGDSERDLSASAVSLEALGAVESSGDGLERKEPSVATILTSFENSFDKYG

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Figure 6B

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SEQ	ID	NO: 41	LESPTNPRQQISDIRKISEMAHAQQGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	300
SEQ	ID	NO: 34	LESPTNPRQQISDIRKISEMAHAQQGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
SEQ	ID	NO: 68	LESPTNPRQQITDIKTISEIAHSHGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
SEQ	ID	NO: 36	LESPTNPRQQITDIKTISEIAHSHGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
SEQ	ID	NO: 70	LESPTNPRQQITDIKTISEIAHSHGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
SEQ	ID	NO: 38	LESPTNPRQQISDIRKISEMAHSHGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
SEQ	ID	NO: 40	LESPTNPRQQITDIKTISEIAHSHGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
SEQ	ID	NO: 72	LESPTNPRQQITDIKTISEIAHSHGALVLVDNSIMSPVLSRPLELGADIVMHSATKFIAG	
			241	300
SEQ	ID	NO: 41	HSDVMAGVLAVKGEK-LAKEVYFLQNSEGSLAPFDCWLCRLGIKTMALRIEKQQENARK	
SEQ	ID	NO: 34	HSDLMAGILAVKGES-LAKEVGFLQNAEGSLAPFDCWLCRLGIKTMALRVEKQQANAQK	
SEQ	ID	NO: 68	HSDLMAGILAVKGES-LAKEVGFLQNAEGSLAPFDCWLCRLGIKTMALRVEKQQANAQK	
SEQ	ID	NO: 36	HSDLMAGILAVKGES-LAKEVGFLQNAEGSLAPFDCWLCRLGIKTMALRVEKQQANAQK	
SEQ	ID	NO: 70	HSDLMAGILAVKGES-LAKEVGFLQNAEGSLAPFDCWLCRLGIKTMALRVEKQQANAQK	
SEQ	ID	NO: 38	HSDIMAGVLAVKGEK-LGKEMYFLQNAEGSLAPFDCWLCRLGIKTMALRIEKQQDNAQK	
SEQ	ID	NO: 40	HSDLMAGILAVKGES-LAKEIAFLQNAEGSLAPFDCWLCRLGIKTMALRVEKQQDNAQK	
SEQ	ID	NO: 72	HSDLMAGILAVKGES-LAKEIAFLQNAEGSLAPFDCWLCRLGIKTMALRVEKQQDNAQK	
			301	360

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Figure 6D

```
SEQ ID NO: 41  *** * **** * **** * **** * **** * **** * **** * **** *
SEQ ID NO: 34  IAMYLSHPRVKVYAGLPDHPGHHLFHQAKGAGSVFSTGVALSKHLVETTKYFS
SEQ ID NO: 68  IAEFLASHPRVKQVNYAGLPDHPGRALHYSQAKGAGSVLSFLTGSLALSKHVETTKYFS
SEQ ID NO: 36  IAEFLASHPRVKQVNYAGLPDHPGRALHYSQAKGAGSVLSFLTGSLALSKHVETTKYFS
               -----
SEQ ID NO: 70  IAEFLASHPRVKVNYAGLPDHPGRSLHYSQAKGAGSVLSFLTGSLALSKHVETTKYFN
SEQ ID NO: 38  IAEFLASHPRVKEVNYAGLPDHPGRDLHYSQAKGAGSVLSFLTGSLALSKHIVETTKYFS
SEQ ID NO: 40  IAEFLASHPRVKQVNYAGLPDHPGRSLHYSQAKGAGSVLSFQTGSLSLSKHVETTKYFN
SEQ ID NO: 72  IAEFLASHPRVKQVNYAGLPDHPGRSLHYSQAKGAGSVLSFQTGSLSLSKHVETTKYFN
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```

```
SEQ ID NO: 41  ***** * **** * **** * **** * **** * **** * **** *
SEQ ID NO: 34  IAVSFGSVKSLISMPCFMASHASIPAEVREARGLTEDLVRIAGIEDVDDLIADLAFKTFPL
SEQ ID NO: 68  VTVSFGSVKSLISLPCFMASHASIPASVREERGLTDDLVRISVGIEDVEDLIADLDRALRTGPV
SEQ ID NO: 36  VTVSFGSVKSLISLPCFMASHASIPASVREERGLTDDLVRISVGIEDVEDLIADLDRALRTGPV
               -----
SEQ ID NO: 70  VTVSFGSVKSLISLPCFMASHASIPASVREERGLTDDLVRISVGIEDADDLIADLDRALSGPA
SEQ ID NO: 38  ITVSFGSVKSLISMPCFMASHASIPAAVREARGLTEDLVRIVGIEDVNDLIADLGNALRTGPL
SEQ ID NO: 40  VTVSFGSVKSLISLPCFMASHASIPSSVREERGLTDDLVRISVGIEDVDDLIADLDYALRSGPA
SEQ ID NO: 72  VTVSFGSVKSLISLPCFMASHASIPSSVREERGLTDDLVRISVGIEDVDDLIADLDYALRSGPA
               421
```